

RUUD
gas
WATER
HEATERS



Why



RUUD MANUFACTURING C O M P A N Y

P I T T S B U R G H
P E N N S Y L V A N I A

Founded 1889

Incorporated 1897

B R A N C H O F F I C E S I N
A L L L A R G E C I T I E S

2

GAS WATER HEATERS?

Because...

Gas is the only quick-heating fuel that can be used in a *fully-automatic* water heater.

Gas represents the concentration of many heat units in a small volume of fuel. Gas is clean; it leaves no residue. Gas is quick-heating. Fuel-handling and fuel storage are unnecessary. Water temperature is completely and automatically controlled. There is no water or fuel waste from overheating; there is no inconvenience from under-heating. Service is perfect. Cost has been steadily lowered during the past five years and is most reasonable.

RUUD WATER HEATERS?

Because...

For nearly fifty years, RUUD has devoted itself to one specialized field — the manufacture of gas-fired water heaters.

The group of water heaters here shown is representative but not complete. In the complete line, there are . . .

... automatic and non-automatic models.

... a complete range of prices starting from the very lowest.

... suitable for use with natural, mixed, manufactured and liquefied petroleum (bottled) gases.

... a nation-wide system of branches (see phone book) in larger cities and traveling representatives everywhere.

... complete factory engineering assistance in selection of type and size, specification writing and installation procedure.

Ruud

Prices Are Low

RUUD IMPROVED AUTOMATIC STORAGE WATER HEATER

Description

RUUD IMPROVED is the top-quality, blue-ribbon leader of the RUUD group of automatic gas storage water heaters. Inside and out, it is built to exacting specifications that combine good looks and super-performance.

Automatic action is extremely simple and reliable. Heat from the quick-speed burner is absorbed by the water through the bottom and sides of the full-floating tank. When the pre-set temperature is reached, the Moment Valve snaps the gas off. When hot water withdrawals reduce the temperature of the water in the tank, the Moment Valve snaps the gas on and the heating action is repeated. Thus, hot water is always at hand in abundance and without thought or attention.

Features

Four sizes (20, 30, 45, and 75 gallon storage tanks) meet the hot water requirements of most homes and many commercial buildings. The famous RUUD All-Metal Moment Valve turns the gas on and off to maintain a supply of even-tempered hot water in the tank. The all-metal automatic gas cut-off closes all gas lines in case of pilot flame failure. New-process, full-floating and saddle-top super-tanks supplied in galvanized steel or Ruud-a-loy (strengthened copper). Clean-out hand-hole (supplied with steel tanks only) is special equipment for hard water districts. Thick insulation. Quick-heating, blue-flame bunsen burner. Adjustable gas orifice. Full-front mechanism. All parts accessible and interchangeable. High-lustre, colorful porcelite finish.

Where to Specify

For homes and institutions that want the finest automatic storage water heater made, one of blue-ribbon performance and super-life.

For hot water requirements ranging from average families using from 60 to 100 gallons of hot water a day to very large homes, apartments, office buildings, etc., whose demands can be served by the 75 gallons storage capacity and the 77 gallons an hour heating rate of the Ruud Improved No. 39-75. Where the water supply contains acid and other substances that accelerate steel tank corrosion, specify Ruud Improved with Ruud-a-loy (strengthened copper) tank. Where the water supply contains lime and other precipitating minerals, specify hand-hole models (made with steel tanks only).



GENERAL TABLE

Number	33-20	35-30	37-45	39-75
Tank Capacity (gallons)	20	30	45	75
Heat-Speed in gallons per hour (60° rise)	28	35	56	77
Hourly B.T.U. (Nat. and Manf. Gas)	20,000	25,000	40,000	55,000
Gas line (inches)	3/8	3/8	1/2	1/2
Water line (inches)	3/4	3/4	1	1
Flue (inches)	3	4	4	5

Add 6 3/4" to M for 3" draft-hood
Add 8" to M for 4" draft-hood
Add 9 1/2" to M for 5" draft-hood

Capacities

No. 33-20

Capacity: 20 gallons storage. Heat-speed, 28 gallons an hour, 60 degree rise.

For: Average families normally using between 60 and 100 gallons of hot water a day. In general, for one bathroom houses.

No. 35-30

Capacity: 30 gallons storage. Heat-speed, 35 gallons an hour, 60 degree rise.

For: Average families normally using between 100 and 200 gallons a day. In general, for one or two bathroom houses.

No. 37-45

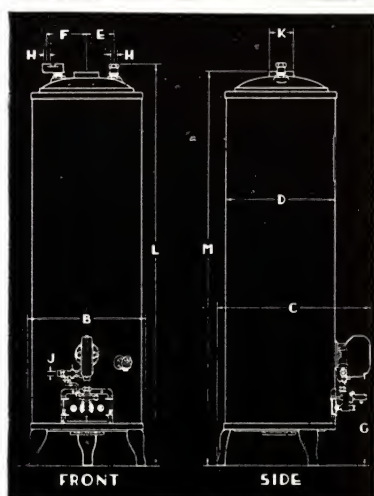
Capacity: 45 gallons storage. Heat-speed, 56 gallons an hour, 60 degree rise.

For: Larger families normally using between 200 and 300 gallons a day. In general, for two and three bathroom houses.

No. 39-75

Capacity: 75 gallons storage. Heat-speed, 77 gallons an hour, 60 degree rise.

For: Large homes, small apartments of not more than four families, office buildings, institutions and many other commercial requirements.



ROUGHING-IN DIMENSIONS (INCHES)

Number	33-20	35-30	37-45	39-75
B	17 1/8	18 5/8	23	27 1/8
C	23 3/8	25 1/4	30	32 3/8
D	16 1/4	18	22 1/2	26 5/8
E	4	4 1/2	6	6
F	5 3/4	6 1/4	8	8
G	16	16	18	28
H	3/4	3/4	1	1
J	3/8	3/8	1/2	1/2
K	3	4	4	5
L	62 1/2	65 3/4	64 1/4	69 3/4
M	61 1/4	64 3/8	62 7/8	68 1/2

ACME AUTOMATIC STORAGE WATER HEATER

27
48



GENERAL TABLE

Number	5-15B	5-20B	5-30B
Tank Capacity (gallons)	15	20	30
Heat-Speed in gallons per hour (60° rise)	22.4	28	35
Hourly B.T.U. input (Nat. & Manf. gas)	16,000	20,000	25,000
Gas Line (inches)	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
Water Line (inches)	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
Flue (inches)	3	3	3

Capacities

No. 5-15B

Capacity: 15 gallons storage. Heat-speed, 22.4 gallons an hour, 60 degree rise.

For: Small families normally using between 30 and 60 gallons an hour.

No. 5-20B

Capacity: 20 gallons storage. Heat-speed, 28 gallons an hour, 60 degree rise.

For: Average families normally using between 60 and 100 gallons a day. In general, for one bathroom houses.

No. 5-30B

Capacity: 30 gallons storage. Heat-speed, 35 gallons an hour, 60 degree rise.

For: Average families normally using between 100 and 200 gallons a day. In general, for one and two bathroom houses.

Description

Extreme low price without sacrifice of basic quality and performance is the prime feature of the Acme Automatic Storage Water Heater.

The automatic action of the all-metal thermostat maintains a constant supply of evenly-tempered hot water in the thickly insulated tank, ready for instant withdrawal at all times. Compact, smart and colorful, Acme is a modern automatic water heater in every detail of design and operation.

Features

Three sizes (15, 20 and 30 gallon storage tanks) are designed to cover the hot water requirements of small and average homes and for other buildings with like demands. The all-metal, snap-action thermostat automatically controls gas flow, proportioning it to the owner's demands and keeping an ample supply of hot water ready in the heavily-insulated tank.

If the pilot flame goes out, the automatic gas cut-off acts to close both main and pilot gas lines. The new-process galvanized steel tank is made with an internal baffled flue. It is heavy, long-wearing and built with a corrosion-resisting saddle-top. Rock-wool insulation is full thickness. Quick-heating bunsen burner. The entire combustion chamber assembly can be removed as a unit. Mechanism is full-front; no side-rigging. Finish is colorful, high-lustre porcelite.

Where to Specify

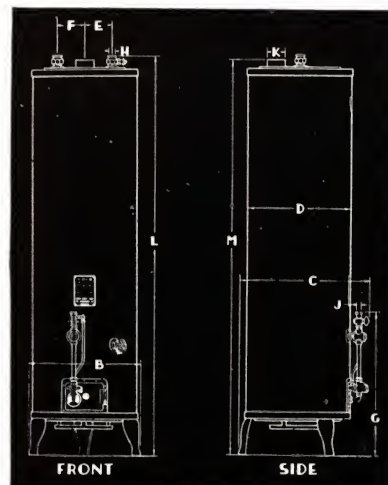
Where extreme low price is an important factor.

For hot water requirements that range from 30 to 200 gallons a day; — from very small homes with one bathroom to larger homes and families with two; — for commercial demands in the same class.

ROUGHING-IN DIMENSIONS (INCHES)

Number	5-15B	5-20B	5-30B
B	16 $\frac{1}{2}$	16 $\frac{1}{2}$	18 $\frac{1}{8}$
C	20 $\frac{3}{4}$	20 $\frac{3}{4}$	22 $\frac{3}{8}$
D	15 $\frac{1}{4}$	15 $\frac{1}{4}$	17 $\frac{1}{4}$
E	4	4	4 $\frac{1}{2}$
F	5 $\frac{3}{4}$	5 $\frac{3}{4}$	6 $\frac{1}{4}$
G	22 $\frac{3}{8}$	22 $\frac{3}{8}$	23 $\frac{3}{8}$
H	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
J	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
K	3	3	3
L	50 $\frac{3}{4}$	61 $\frac{5}{8}$	66 $\frac{1}{8}$
M	49 $\frac{3}{4}$	60 $\frac{1}{2}$	65 $\frac{1}{8}$

Note: Add 6 $\frac{3}{4}$ " to M for draft-hood



RUUD C.C. (CUSTOMER CONTROL) AUTOMATIC STORAGE WATER HEATER

Description

Where fuel expense is an important factor, the RUUD C. C. (Customer Control) Automatic Storage Water Heater is recommended. The unit is fully automatic, but by simple manipulation of the three-part C. C. Burner, the owner can himself set the heat-speed (rate of gas burning and water heating), selecting it either on the basis of self-determined fuel cost limits or extent of hot water service desired.

Change in heat-speed can be made at the owner's will, increasing or decreasing it as he wishes, with hot water supply and fuel cost likewise changing in the same ratio. This is true made-to-measure and customer-controlled hot water service.

Features

Three sizes (20, 30 and 50 gallon storage tanks) supply the three common classes of hot water demand — small homes, those of average size and those a little larger than average.

RUUD C. C. has full-automatic equipment, — all-metal thermostat and gas cut-off. Thick insulation surrounds the tank sides and is extra thick on top. The owner can control his own gas cost through simple changes of the two gas cocks. All three sizes are made with new-process, super-heavy tanks of galvanized steel; Nos. 44-30 and 46-50 are also built with tanks of Ruud-a-loy (strengthened copper). The unit is compact; finish is colorful porcelite with aluminum trimming.

Where to Specify

Where fuel expense is an important factor; where the owner desires to regulate and control his own gas cost.

For small, average and average-plus homes where the owner wishes to select his own class of hot water service and thereby control his own fuel expense. Very popular for use with bottled gas. Ruud-a-loy (strengthened copper) tanks should be specified where the water supply attacks steel tanks or where the owner wants the longer life that Ruud-a-loy will give him.



27
48

GENERAL TABLE

Number		42-20	44-30	46-50
Tank Capacity (gallons)		20	30	50
Heat-Speed in gallons per hour (60° rise)	Adj. No. 1 Adj. No. 2 Adj. No. 3	4.2 7.0 11.2	4.9 9.1 14.0	5.6 11.2 16.8
Hourly B.T.U. input (Nat. & Manf. Gas)	Adj. No. 1 Adj. No. 2 Adj. No. 3	3,000 5,000 8,000	3,500 6,500 10,000	4,000 8,000 12,000
Gas Line (inches)		3/8	3/8	3/8
Water Lines (inches)		3/4	3/4	1
Flue (inches)		3	3	3

Capacities

Capacity: 20 gallons storage. Heat-speed on full burner 11.2 gallons an hour, 60 degree rise.

For: Small homes and families normally using between 30 and 70 gallons an hour, 60 degree rise. In general, for one bathroom houses.

No. 44-30

Capacity: 30 gallons storage. Heat-speed on full burner, 14 gallons an hour, 60 degree rise. In general, for one bathroom houses.

For: Average homes and families normally using between 50 and 90 gallons a day.

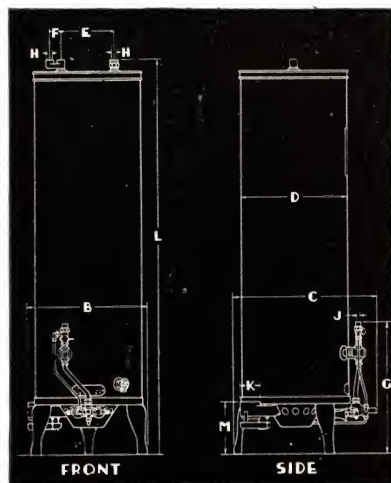
No. 46-50

Capacity: 50 gallons storage. Heat-speed with full burner, 16.8 gallons an hour, 60 degree rise.

For: Larger homes and families normally using between 70 and 135 gallons a day. In general, for one and two bathroom houses. Ideal for certain classes of commercial installations.

Note:

See Back Cover for
Special Service to Architects



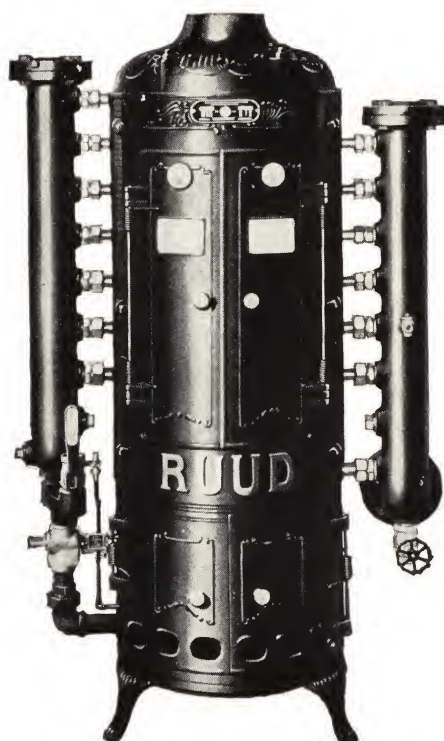
ROUGHING-IN DIMENSIONS (INCHES)

Number	42-20	44-30	46-50
B	21	21	23
C	23 1/2	23 1/2	28 1/4
D	17 1/4	17 1/4	21 1/4
E	4 1/2	4 1/2	6
F	1 3/4	1 3/4	2
G	21	21	22 1/8
H	3/4	3/4	1
J	3/8	3/8	3/8
K	3	3	3
L	49 1/4	65 1/2	66 1/8
M	8 3/4	8 3/4	8 3/4

Add 6 1/4" to M for draft-hood

RUUD MULTI-COIL AUTOMATIC STORAGE WATER HEATER

27
48



Where to Specify

For practically every heavy-duty water heating job except in those cases where hot water demands are intermittent and best served by a unit of intermittent action,—the RUUD Continuous Flow Water Heater. Large homes, apartment buildings and every manner of commercial and volume water heating can be perfectly supplied by the RUUD multi-coil group. Since requirements in this field are so varied and special, it is urged that the Ruud engineering department be called upon for specification help.

Description

From this heavy-duty group, practically every requirement of Volume Water Heating can be met. Water is heated as it passes through copper coils and circulates through manifolds to and from the tank until the pre-set temperature is reached at which time the Moment Valve shuts off the flow of gas.

When the temperature drops through hot water withdrawals, the Moment Valve opens the gas line again and the heating operation is repeated. The automatic cycle is complete.

Extra ruggedness marks every detail of construction, a quality that is translated into a reliable and continuous hot water service at low cost for fuel and maintenance. Single or battery installations.

Features

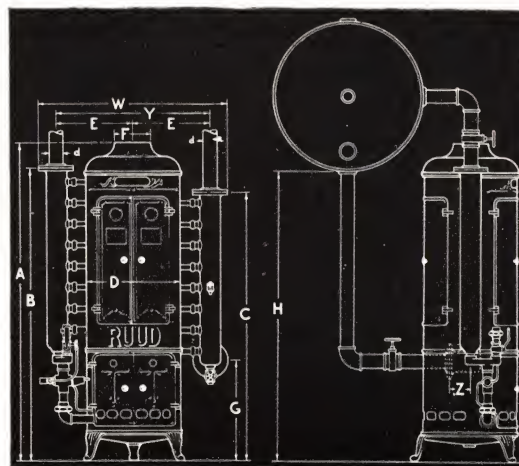
RUUD Multi-Coil Automatic Storage Systems are made in four standard water heater sizes and range of storage tanks of many capacities, which are furnished as specified in black iron, galvanized steel and Ruud-a-loy (strengthened copper). Tanks with steam coils are supplied as ordered. Installations may be made singly (one water heater and one tank) or in battery (two or more water heaters connected to one tank).

Fuel control is close and economical through the RUUD All-Metal Moment Valve and Automatic Gas Cut-Off. Coils are heavy, premium copper; they are separate and independent so that removal of one for inspection or repair does not throw the equipment out of service. Porcelain-enameled manifolds. Two piece, easy-to-clean bunsen burners. Heavy shell. Extreme ruggedness characterizes the system throughout.

ROUGHING-IN
DIMENSIONS (INCHES)

No.	100	200	350	500
A	45	53 3/8	61	64 1/8
B	41 3/4	49 1/2	56 1/4	58 1/2
C	37 3/4	45 1/2	52	53 1/2
D	12 1/2	16	18 1/2	20 1/2
E	10 3/4	13	14 3/4	15 3/4
F	5	6	7	8
G	17 1/4	18	19	18 1/2
H	41	49	56	58
d	1 1/2	2	2 1/2	2 1/2
W	27	32	36 1/2	38 1/2
Y	21 1/2	26	29 1/2	31 1/2
Z	3	3 1/2	4	4

Note: H equals minimum dimension.



GENERAL TABLE

Size	Heat Speed in Gallons per Hour 60° Rise		No. of Coil Sections	Size Manifold Connection	Size Gas Inlet	Size Flue Connection	Number of Burners	Orifice Natural Gas	Orifice *Manufactured Gas	Moment Valve Required	Moment Valve Tapping Required	Size of Gas Meter	Hourly B.T.U. Input	
	Natural Gas	Manufactured Gas											Natural	Artificial
100	107.7	111.9	6	1 1/2"	3/4"	5"	6	52	40	3/4" A	1 1/4"	20	77,000	80,000
200	215.4	223.8	7	2"	1"	6"	12	52	40	1"	1 1/4"	45	154,000	160,000
350	377.6	391.6	7	2 1/2"	1 1/4"	7"	21	52	40	1 1/4"	1 1/4"	60	270,000	280,000
500	538.5	559.4	8	2 1/2"	1 1/2"	8"	30	52	40	1 1/2"	1 1/2"	80	385,000	400,000

*Manufactured Gas Orifice varies with Specific Gravity, B.T.U. and Pressure of the Gas.

RUUD MULTI-COIL AUTOMATIC STORAGE SYSTEM

Capacities

No. 100

Capacity: Heat-speed at 60 degree temperature rise is 107.7 gallons an hour (natural gas) — 111.9 gallons an hour (manufactured gas). Furnished regularly with tanks of 80, 100 and 150 gallons storage capacity.

For: In general, homes having from three to five bathrooms, bedroom lavatories, large kitchen sink and laundry. Apartment buildings with six apartments of four and five rooms each.

No. 200

Capacity: Heat-speed at 60 degree rise is 215.4 gallons an hour (natural gas) — 223.8 gallons an hour (manufactured gas). Furnished regularly with tanks of 100, 150, 200, 250, and 300 gallons capacity, singly or in duplex.

For: In general, homes having five to eight bathrooms, large kitchen sink, dishwashing machine, large laundry. Apartment buildings with six to twelve apartments of five or six rooms each.

No. 350

Capacity: Heat-speed at 60 degree rise is 377.6 gallons an hour (natural gas) — 391.6 gallons an hour (manufactured gas). Furnished regularly with tanks of 300, 365, 425, 500 and 600 gallons capacity, singly and in duplex.

For: In general, homes having seven to ten bathrooms, large kitchen sink, pantry sink, dishwashing machine, large laundry. Apartment buildings with ten to twenty apartments of five and six rooms each.

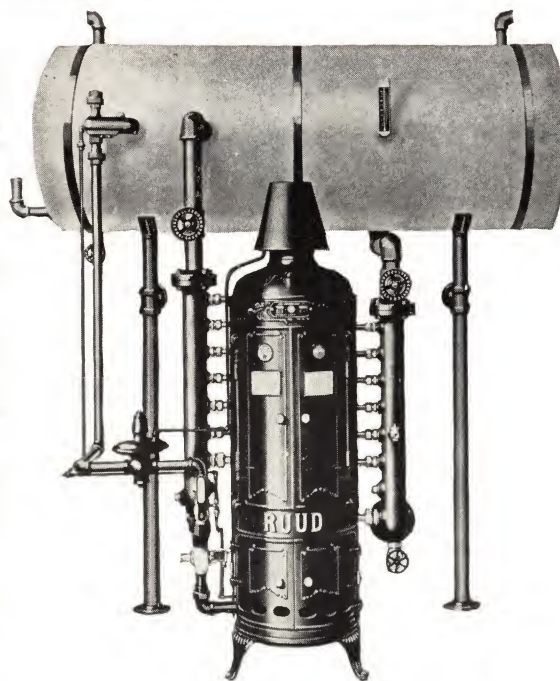
No. 500

Capacity: Heat-speed at 60 degree rise is 538.5 gallons an hour (natural gas) — 559.4 gallons an hour (manufactured gas). Furnished regularly with tanks of 425, 500, 600, 700, 800, 1,000, 1,200, 1,500, 1,800, 2,000, and 2,500 gallons capacity in black iron and galvanized. Ruud-a-loy (strengthened copper) tanks furnished up to 1,200 gallons capacity.

For: Single, duplex and triplex installations.

RUUD THERMOSTATIC MOMENT VALVES

Size of Valve	Std. With Heater No.	Total Length	Length Inside Tank	Length Outside Tank	Tank Tapping Req'd.	Shipping Weight Lbs.	Weight Net Lbs.
3/4"-A	100	23 3/4"	15 1/2"	8 1/4"	1 1/4"	28	12
1"	200	32 3/4"	22"	10"	1 1/4"	45	22
1 1/4"	350	32"	22"	10"	1 1/4"	65	29
1 1/2"	Duplex 200	42 1/2"	30 1/2"	12"	1 1/2"	70	32
2"	Duplex 350	42 1/2"	30 1/2"	12"	1 1/2"	75	39



Note:

See Back Cover for
Special Service to Architects

Standard Combinations

Black and Galvanized Iron Standard Tank Combinations

Line No.	Number No. Heater	Capacity of Tank in Gallons	Number of Tank	Diam. of Tank	Length of Tank	Number of Heaters Tapped for	Cold Inlet to Tank	Hot Outlet from Tank	Size of Circulators	Line No.
1	100	80	1	20"	5'-0"	1	1 1/4"	1 1/4"	1 1/2"	1
2	100	100	2	22"	5'-0"	1	1 1/4"	1 1/4"	1 1/2"	2
3	100	150	4	24"	6'-4"	1	1 1/4"	1 1/4"	1 1/2"	3
4	200	100	5-B	22"	5'-0"	1	1 1/4"	1 1/4"	2"	4
5	200	150	7-B	24"	6'-4"	1	1 1/2"	1 1/2"	2"	5
6	200	200	8-B	24"	8'-6"	2	2"	1 1/2"	2"	6
7	200	250	9-B	30"	7'-0"	2	2"	1 1/2"	2"	7
8	200	300	10-B	30"	8'-0"	2	2"	1 1/2"	2"	8
9	350	300	16-B	30"	8'-0"	2	2 1/2"	2 1/2"	2 1/2"	9
10	350	365	17-B	30"	10'-0"	2	2 1/2"	2 1/2"	2 1/2"	10
11	350	425	18-B	36"	8'-0"	2	2 1/2"	2 1/2"	2 1/2"	11
12	350	500	19-B	36"	9'-6"	2	2 1/2"	2 1/2"	2 1/2"	12
13	350	600	20-B	42"	8'-6"	2	2 1/2"	2 1/2"	2 1/2"	13
14	500	425	21	36"	8'-0"	2	2 1/2"	2 1/2"	2 1/2"	14
15	500	500	22	36"	9'-6"	2	2 1/2"	2 1/2"	2 1/2"	15
16	500	600	23	42"	8'-6"	2	2 1/2"	2 1/2"	2 1/2"	16
17	500	700	24	42"	10'-0"	2	2 1/2"	2 1/2"	2 1/2"	17
18	500	800	25	48"	8'-6"	2	2 1/2"	2 1/2"	2 1/2"	18
19	500	1000	26	48"	10'-9"	2	2 1/2"	2 1/2"	2 1/2"	19
20	500	1200	27	48"	13'-0"	3	3"	3"	2 1/2"	20
21	500	1500	28	54"	12'-9"	3	3"	3"	2 1/2"	21
22	500	1800	29	54"	15'-3"	3	3"	3"	2 1/2"	22
23	500	1800	29-A	60"	12'-6"	3	3"	3"	2 1/2"	23
24	500	2000	30	54"	17'-0"	4	3"	3"	2 1/2"	24
25	500	2500	31	60"	17'-0"	4	3"	3"	2 1/2"	25

Above Tanks may be equipped with Steam Coils, Manholes and Handholes.

GALLONS PER HOUR DELIVERED BY RUUD MULTI-COIL STORAGE HEATERS

Size of Heater	TEMPERATURE RISE IN DEGREES F.														
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
100	630	315	210	158	126	105	90	79	70	63	57	52.5	48.5	45	42
200	1260	630	420	315	252	210	180	157.5	140	126	114.5	105	90	79	84
350	2205	1102.5	734.5	551	441	367.5	315	275.5	244.5	220.5	200	183.5	169.5	157.5	147
500	3150	1575	1050	787.5	630	525	450	394	350	315	286	262	242	225	210

RUUD No. 75 MULTI-COIL AUTOMATIC STORAGE WATER HEATER

27
48



GENERAL TABLE

No.	Size Moment Valve	Heat Speed Gallons Per Hour 60° Rise	Hourly B.T.U. Input Nat. and Man. Gas	Gas Line	Water Lines	Flue
75	3/4"	77	55,000	1/2"	1 1/2"	4"

Capacities

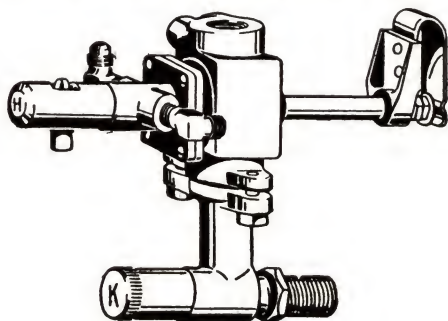
No. 75

Capacity: Heat-speed at 60 degrees temperature rise is 77 gallons of hot water an hour. Furnished regularly with tanks of 60, 80, and 100 gallons, but can be connected to tanks of other sizes, singly and in duplex.

For: Large homes having from three to five bathrooms. Apartment buildings with four apartments of four and five rooms each. For many commercial and volume water heating requirements.

RUUD AUTOMATIC GAS CUT-OFF

The cut-off that is standard equipment on the RUUD No. 75 Multi-Coil Water Heater is the same as used in RUUD Multi-Coil Automatic Storage Systems. Setting it and lighting the pilot burner takes but a few seconds. Thereafter, the operation is automatic. The hot thermostatic metal holds both pilot and main gas valve open; if the pilot flame goes out, the metal cools and automatically closes both the main and pilot gas valves. Needle valve adjustment is also shown.



Description

This new unit is specially designed and built for the conversion of heavy-duty coal or oil-fired systems to gas by connection, in unit or battery, to the existing storage tank. It is also supplied complete with water heater and a new RUUD tank (black iron, galvanized or Ruud-a-loy strengthened copper).

Operation follows the principle of the RUUD Multi-Coil Automatic Storage System — the automatic heating of water to balance the hot water withdrawals from the tank. The gas control — the RUUD Moment Valve — is reliable and positive-acting, holding the main gas valve fully open or completely closed, without gas-wasting midway positions.

To users of solid and liquid fuels in large residences, institutions, office buildings, loft buildings, factories, etc., the RUUD No. 75 provides the quickest and cheapest method of utilizing gas for water heating.

Features

Made in one size only, with a heat-speed (60° temperature rise) of 77 gallons of hot water an hour. Single or duplex installations. In single installations, RUUD No. 75 should be connected to tanks of 60, 80 or 100 gallons capacity.

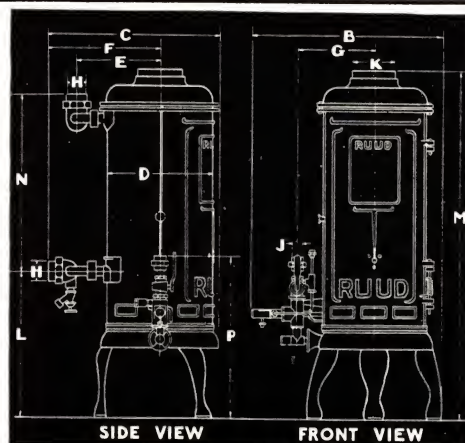
The RUUD All-Metal Moment Valve, which turns gas on and off as fuel is or is not required, provides automatic economical regulation of gas consumption and stored water temperature. A secondary fuel control is the RUUD All-Metal Automatic Gas Cut-Off which closes all gas lines if the pilot flame is extinguished. There are three coils, made from heavy premium copper tubes, and so staggered as to baffle the heat most effectively. A quick-speed unit bunsen burner is equipped with a needle valve adjustment and an adjustable air shutter. Manifolds are brass. Jacket is heavy cast iron, insulated with rock-wool around the heat zone. Rugged construction throughout.

Where to Specify

For homes and other buildings where hot water requirements fall within the capacity of the RUUD No. 75. This model has many commercial uses and is an inexpensive way of switching from other fuels to gas, and utilizing the present storage tank.

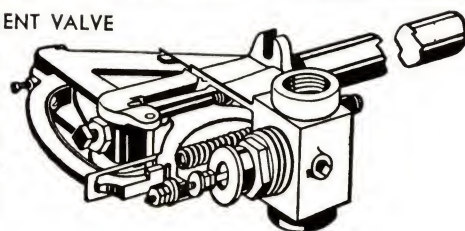
ROUGHING-IN DIMENSIONS (INCHES)

Number	75
B	20
C	18 1/4
D	11 7/8
E	8 1/2
F	11 3/4
G	8 3/8
H	1 1/2
J	1/2
K	4
L	16 5/8
M	39 1/2
N	21 3/4
P	18 5/8
R	46 1/4



RUUD ALL-METAL MOMENT VALVE

The RUUD All-Metal Moment Valve is sold as standard equipment with the RUUD No. 75 Multi-Coil Water Heater. It holds the main gas valve to two positions, full-open or completely closed so that gas burns at its highest efficiency or not at all. Flue losses due to graduations of gas flame are entirely eliminated. It is a thoroughly reliable fuel control.



RUUD CONTINUOUS FLOW WATER HEATER

Description

This type provides an instant, continuous, uninterrupted flow of uniformly tempered water. The action is controlled entirely by the faucets opening and closing, plus the automatic temperature regulation of the internal thermostat.

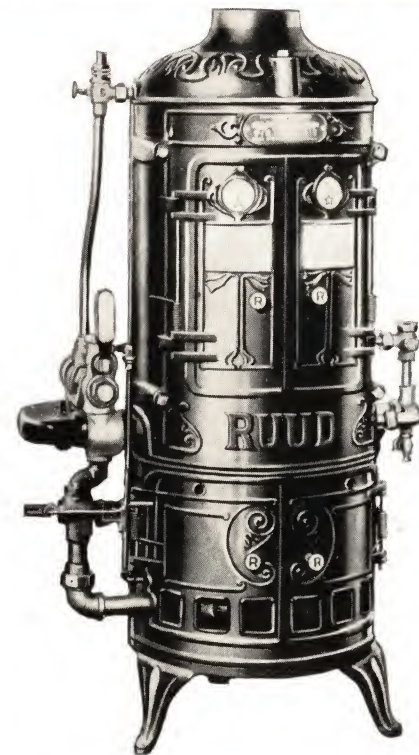
The heating action is instant. Opening the faucet starts gas burning and water flows at once through long copper coils which are enveloped in hot gases, so that water entering the machine cold, is hot when it leaves. Closing the faucet stops the machine's operations automatically.

Features

Five sizes with capacities ranging from 2-plus to 8 gallons a minute can care for a large majority of home and commercial hot water requirements, and when installed in battery, for even the largest demands. Two separate and independent gas valves, one actuated by water flow and the other by water temperature. Thermostat is in the heart of the heat zone and instantly responsive to temperature changes. All-metal automatic gas cut-off. Coils are seamless, premium copper, baffle-wound. Two piece, easy-to-clean burners. Waterways are brass and copper, assuring rust-free hot water. Heavy cast-iron shell. Long-life construction.

Where to Specify

This is a tankless system without stand-by losses. It is ideal for all homes and buildings where instant, inexhaustible and rust-free hot water is desired.—for intermittent demands where hot water storage would be wasteful (shower rooms of athletic plants, autowash stations, soda fountains, etc.),—for draws over a long period that would exhaust a tank supply,—and for water conditions that corrode iron and steel tanks quickly. This type is extremely flexible and installed singly or in battery, there are but few hot water demands that it cannot care for.



27
48

GENERAL TABLE

Number	95	3	4	6	8
Capacity in gallons per Minute (63° rise)	2 plus	3	4	6	8
Hourly B.T.U. input					
Nat. Gas	92,000	110,000	137,500	220,000	275,000
Manf. Gas	97,000	116,000	145,000	232,000	290,000
Gas Line (inches)	3/4	1	1 1/4	1 1/2	2
Cold Water Line (inches)	1/2	1/2	1/2	3/4	3/4
Hot Water Line (inches)	1/2	1/2	1/2	3/4	1
Flue (inches)	5	6	6	7	8

Note: 25 pounds minimum water pressure required for standard water heaters. From 5 to 25 pounds use the low pressure type supplies in the No. 4, 6, and 8 sizes where pressure is below five pounds, use the storage type.

Capacities

No. 95. Capacity: Two gallons plus a minute, 63 degree temperature rise. For: Very small homes with compactly arranged fixtures.

No. 3. Capacity: Three gallons a minute, 63 degree temperature rise. For: Small homes having ordinary bathroom, kitchen and laundry fixtures.

No. 4. Capacity: Four gallons a minute, 63 degree temperature rise. For: Average, modern homes having kitchen, one or two bathrooms and laundry.

No. 6. Capacity: Six gallons a minute, 63 degree temperature rise. For: Homes with two or three bathrooms and other fixtures in proportion. For small duplex apartments.

No. 8. Capacity: Eight gallons a minute, 63 degree temperature rise. For: Large homes with from three to five bathrooms and other fixtures in proportion. Also for small hotels, apartment houses and restaurants. Note: This is only a general guide to be supplemented by study of individual requirements. In addition to residences, this type has wide application in commercial building. Ask for RUUD specification help.

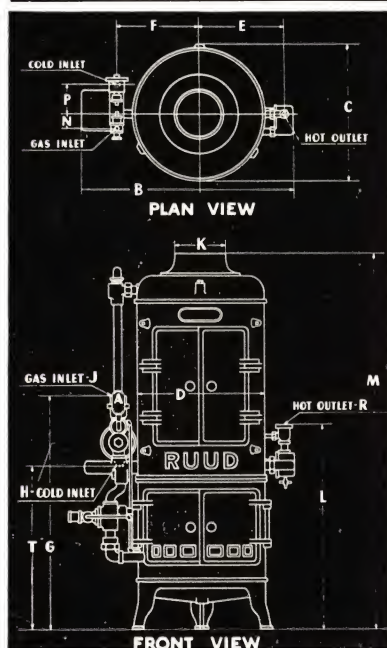
ROUGHING-IN
DIMENSIONS (INCHES)

Number	95	3	4	6	8
B	21 7/8	25 1/2	27 1/4	30 1/4	32 3/8
C	16 1/2	17 1/2	19	22 1/2	23 1/2
D	13 3/4	14 1/2	16 3/8	19	21 1/4
E	9 3/8	10 1/8	11 1/8	12 3/8	13 3/8
F	9 1/4	10	10 3/4	12 3/8	13 3/4
G	16 3/4	29 1/4	31	33 1/2	33 3/4
H	1/2	1/2	1/2	3/4	3/4
J	3/4	1	1 1/4	1 1/2	2
K	5	6	6	7	8
L	19 3/4	26 1/2	27 1/2	28 5/8	29 1/2
M	42 3/8	45 1/2	47 1/4	55 1/2	58 1/2
N		2 1/4	2 1/4	2 3/8	2 3/8
P		3 1/2	3 1/2	3 1/2	3 1/2
R	1/2	1/2	1/2	3/4	1
S	49 3/8	53 1/4	55	63 1/4	67 1/4

CAPACITIES OF CONTINUOUS FLOW WATER HEATERS
TEMPERATURE RISE IN GPM

Number	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°	150°
95	3.15	2.62	2.25	1.97	1.75	1.58	1.43	1.31	1.21	1.12	1.05
3	3.78	3.15	2.70	2.36	2.10	1.89	1.72	1.58	1.45	1.35	1.26
4	5.05	4.20	3.60	3.15	2.80	2.52	2.29	2.10	1.94	1.80	1.68
6	7.58	6.30	5.40	4.73	4.20	3.87	3.52	3.23	2.98	2.76	2.58
8	10.10	8.40	7.20	6.30	5.60	5.04	4.59	4.20	3.88	3.60	3.36

Note: See Back Cover for Special Service to Architects



R U U D

*Engineering and
Specification Service*



The largest line of gas water heaters in the world is trade-marked "RUUD." Any hot water requirements that can be met by gas, can be met by some type and size in the RUUD line, whether that requirement be for one faucet or a thousand.

There are so many varieties of hot water demands, many of which have their own individual problems, that you are urged to accept the no-charge, no-obligation services of the RUUD engineering department in specification and installation problems.

If you live in a large city, consult your phone book for the name and address of a RUUD representative. If not, write direct to . . .



RUUD MANUFACTURING COMPANY
PITTSBURGH, PA.

